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DATE: February 8, 2007

PTO IDENTIFIER: Application Number 10/750,294-Conf. #9179
Patent Number

Inventor: John L. Vian et al.

MESSAGE TO: US Patent and Trademark Office

FAX NUMBER: (571) 273-8300

FROM: ROBERT R. RICHARDSON, P.S.

Robert R. Richardson

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Attorney Dkt. #: BA1-03-0687 (03-0687)

PAGES (Including Cover Sheet): 5

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Response to Restriction Requirement (without Traverse) (2 pages)
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PTO/SB/97 (09-04)

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Application No. (if known): 10/750,294

Attorney Docket No.: BA1-03-0687 (03-0687)

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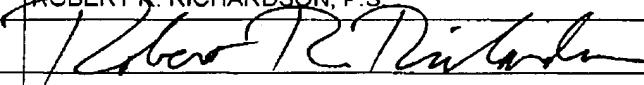
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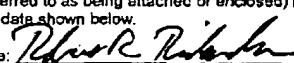
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TRANSMITTAL FORM		Application Number	10/750,294-Conf. #9179
(to be used for all correspondence after initial filing)		Filing Date	December 30, 2003
		First Named Inventor	John L. Vian
		Art Unit	2856
		Examiner Name	S. M. Shah
Total Number of Pages in This Submission	5	Attorney Docket Number	BA1-03-0687 (03-0687)

ENCLOSURES (Check all that apply)		
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Firm Name	ROBERT R. RICHARDSON, P.S.		
Signature			
Printed name	Robert R. Richardson		
Date	February 8, 2007	Reg. No.	40,143

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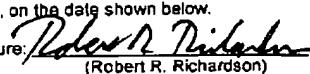
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Dated: 2/8/07 Signature: 
(Robert R. Richardson)

Docket No.: BA1-03-0687 (03-0687)
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
John L. Vian et al.

Application No.: 10/750,294

Confirmation No.: 9179

Filed: December 30, 2003

Art Unit: 2856

For: METHODS AND SYSTEMS FOR
ANALYZING ENGINE UNBALANCE
CONDITIONS

Examiner: S. M. Shah

RESPONSE TO RESTRICTION REQUIREMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the restriction requirement set forth in the Office Action mailed January 8, 2007, Applicant hereby provisionally elects without traverse claims 1-17, 18-31, and 58 of Group I for continued examination. Claims 32-57 are withdrawn without prejudice.

The Examiner has required restriction between:

Group I, claims 1-17 and 58 and 18-31, drawn to a method and a product, respectively, for analyzing an engine unbalance condition including receiving vibrational data from a plurality of locations, inputting the data into an ANNCV, establishing a relationship between the data and the unbalance condition, and outputting information indicating the condition, classified in class 73, subclass 66;

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Docket No.: BA1-03-0687 (03-0687)

Group II, claims 32-45, drawn to a system for analyzing an engine unbalance condition including a control component, an input/output device to receive vibrational data, a processor with a first portion to receive data, a second portion to input the data into a mode, a third portion to establish a relationship between the data and the unbalance condition and a fourth portion to output information indicating at least one of the unbalance condition and the quantity/position of corrective engine balance weights needed to achieve desirable vibrational characteristics, classified in class 700, subclass 280;

Group III, claims 46-54, drawn to a vehicle including a fuselage, a propulsion system coupled to the fuselage, a monitoring system for analyzing an engine unbalance condition, wherein the monitoring system includes the system defined in claims 32-45, classified in class 700, subclass 280; and

Group IV, Claims 55-57, drawn to a system for analyzing an engine unbalance condition including at least one sensor for collecting vibration sensed data, a processor for receiving, analyzing, and extracting information from the data, a data link, a neural network to receive and analyze the information and to determine/present the status of engine balance, classified in class 700, subclass 279.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 503048, under Order No. BA1-03-0687 (03-0687) from which the undersigned is authorized to draw.

Dated: February 8, 2007

Respectfully submitted,


By Robert R. Richardson
Robert R. Richardson

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